07 24 00 EFIS PART 1 GENERAL

1. SUMMARY

A. PROVIDE AIR AND WATER-RESISTIVE BARRIER, AND COMPATIBLE EIFS FOR VERTICAL ABOVE GRADE EXTERIOR WALLS

B. RELATED SECTIONS
1. SECTION 04 00 00: UNIT MASONRY
2. SECTION 07 50 00: MEMBRANE ROOFING
3. SECTION 07 62 00: SHEET METAL FLASHING AND TRIM

1. SUBMITTALS

A. MANUFACTURER'S SPECIFICATIONS, DESIGN GUIDE AND DETAILS, INSTALLATION INSTRUCTIONS, AND PRODUCT DATA

B. MANUFACTURER'S CODE COMPLIANCE REPORT

C. MANUFACTURER'S STANDARD WARRANTY

D. SAMPLES FOR APPROVAL AS DIRECTED BY ARCHITECT OR OWNER

E. SEALANT MANUFACTURER'S CERTIFICATE OF COMPATIBILITY

1. REFERENCES

A. ASTM STANDARDS
1. C150, STANDARD SPECIFICATION FOR PORTLAND CEMENT
2. C578, STANDARD SPECIFICATION FOR RIGID, CELLULAR POLYSTYRENE THERMAL INSULATION
3. C920, STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS
4. C1177, SPECIFICATION FOR GLASS MAT GYPSUM FOR USE AS SHEATHING
5. C1382, STANDARD METHOD FOR DETERMINING TENSILE ADHESION PROPERTIES OF SEALANTS WHEN USE IN EXTERIOR INSULATION AND FINISH SYSTEMS
6. D1970, STANDARD SPECIFICATION FOR SELF-ADHERED POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION
7. D3273, TEST FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER
8. E84, TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
9. E96, STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS
10. E119, METHOD FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS
11. E283, STANDARD TEST METHOD FOR DETERMINING RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, SKYLIGHTS, CURTAIN WALLS, AND DOORS UNDER SPECIFIED PRESSURE DIFFERENCES ACROSS THE SPECIMEN
12. E330, TEST METHOD FOR STRUCTURAL PERFORMANCE OF WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
13. E331, TEST METHOD FOR WATER PENETRATION OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
14. E2178, TEST METHOD FOR AIR PERMEANCE OF BUILDING MATERIALS
15. E2273, TEST METHOD FOR DETERMINING THE DRAINAGE EFFICIENCY OF EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) CLAD WALL ASSEMBLIES
16. E2357, STANDARD TEST METHOD FOR DETERMINING AIR LEAKAGE OF AIR BARRIER ASSEMBLIES
17. E2486, STANDARD TEST METHOD FOR IMPACT RESISTANCE OF CLASS PB AND PI EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)
18. E2568, STANDARD SPECIFICATION FOR PB EXTERIOR INSULATION AND FINISH SYSTEMS

B. ICC-ES ACCEPTANCE CRITERIA, BUILDING CODES
1. AC 235, ACCEPTANCE CRITERIA FOR EIFS CLAD DRAINAGE WALL ASSEMBLIES (JULY 2020)
2. AC 212, ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR SHEATHING
3. IBC-2018, INTERNATIONAL BUILDING CODE
4. IRC-2018, INTERNATIONAL RESIDENTIAL CODE
5. IECC-2018, INTERNATIONAL ENERGY CONSERVATION CODE

C. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS
1. NFPA 268, STANDARD TEST METHOD FOR DETERMINING IGNITABILITY OF EXTERIOR WALL ASSEMBLIES USING A RADIANT HEAT ENERGY SOURCE
2. NFPA 285, STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS

D. SOUTH COAST AQMD (AIR QUALITY MANAGEMENT DISTRICT) STANDARDS
1. RULE 1113, ARCHITECTURAL COATINGS

E. OTHER REFERENCED DOCUMENTS
1. ICC ESR-1233, STOGUARD AIR BARRIER AND WATER-RESISTIVE BARRIER SYSTEM, STOENERGY GUARD (STOGUARD WITH CONTINUOUS INSULATION), AND STOPANEL BACKUP
2. ICC-ESR-1748, STOTHERM CI XPS, STOPANEL CLASSIC CI, STOPANEL IMPACT CI, STOPANEL XPS, AND STOPANEL CLASSIC NEXT CI
3. STOTHERM EIFS: INSTALLATION GUIDE
4. STOTHERM CI XPS DESIGN GUIDE AND DETAIL BOOKLET

1. PERFORMANCE REQUIREMENTS

A. AIR AND WATER-RESISTIVE BARRIER
1. AIR LEAKAGE LESS THAN 0.004 CFM/FT² (0.02 L/S·M²) AT 1.57 PSF (75 PA) WHEN MEASURED IN ACCORDANCE WITH ASTM E2178
2. ASSEMBLY AIR LEAKAGE LESS THAN 0.04 CFM/FT² (0.2 L/S·M²) AFTER CONDITIONING PROTOCOL WHEN MEASURED IN ACCORDANCE WITH ASTM E2357
3. VAPOR PERMEABLE, WATER VAPOR PERMEANCE GREATER THAN 10 PERMS WHEN MEASURED IN ACCORDANCE WITH ASTM E96, METHOD B
4. VAPOR IMPERMEABLE, WATER VAPOR PERMEANCE LESS THAN 0.1 PERMS WHEN MEASURED IN ACCORDANCE WITH ASTM E96, METHOD A
5. NO WATER PENETRATION WHEN SUBJECTED TO SEQUENTIAL WATER SPRAY OF 2.86 PSF (137 PA), THEN 6.24 PSF (299 PA) FOR 15 MINUTES AT EACH PRESSURE INTERVAL, WHEN MEASURED IN ACCORDANCE WITH ASTM E331
6. NO WATER PENETRATION AT NAIL PUNCTURE AFTER 72 HOURS AT 40°F (4° C) WHEN MEASURED IN ACCORDANCE WITH ASTM D1970
7. NO MOLD GROWTH AT 70 DAYS WHEN MEASURED IN ACCORDANCE WITH ASTM D3273

B. EIFS CLADDING
1. MEETS OR EXCEEDS DURABILITY REQUIREMENTS OF ASTM E2568
2. DRAINAGE EFFICIENCY GREATER THAN 95% WHEN MEASURED IN ACCORDANCE WITH ASTM E2273
3. NO WATER PENETRATION WHEN SUBJECTED TO 75 MINUTES OF WATER SPRAY AT 6.24 PSF (299 PA) AND MEASURED IN ACCORDANCE WITH ASTM E331
4. NO MOLD GROWTH AT 60 DAYS WHEN MEASURED IN ACCORDANCE WITH ASTM D3273
5. FLAME SPREAD AND SMOKE DEVELOPMENT OF LAMINA (BASE COAT, REINFORCING MESH, AND FINISH) LESS THAN 25 AND 450, RESPECTIVELY, WHEN TESTED IN ACCORDANCE WITH ASTM E84
6. MEETS ACCEPTANCE CRITERIA OF NFPA 285 FOR USE ON NON-COMBUSTIBLE CONSTRUCTION
7. NO IGNITION WHEN EXPOSED TO RADIANT HEAT IN ACCORDANCE WITH NFPA 268
8. MAINTAINS HOURLY FIRE RESISTANCE RATING OF KNOWN, RATED WALL ASSEMBLY WHEN TESTED IN ACCORDANCE WITH ASTM E119
9. MEETS STANDARD IMPACT RESISTANCE WITH STO MESH, MEETS ULTRA-HIGH IMPACT RESISTANCE WITH STO MESH AND STO ARMOR MAT, WHEN MEASURED IN ACCORDANCE WITH ASTM E2486
10. ULTIMATE WIND LOAD CAPACITY OF PLUS OR MINUS 188 PSF (9.00 KPA) WHEN MEASURED IN ACCORDANCE WITH ASTM E330, AND SUPPORT WALL CONSTRUCTION ACHIEVES EQUAL OR GREATER ULTIMATE LOAD CAPACITY

1. COMPLIANCE

A. AIR AND WATER-RESISTIVE BARRIER
1. MEETS OR EXCEEDS MAXIMUM ALLOWABLE MATERIAL AIR LEAKAGE REQUIREMENTS OF THE 2018 IECC BASED ON INDEPENDENT LABORATORY TESTING IN ACCORDANCE WITH ASTM E2178
2. MEETS OR EXCEEDS MAXIMUM ALLOWABLE ASSEMBLY AIR LEAKAGE REQUIREMENTS OF THE 2028 IECC BASED ON INDEPENDENT LABORATORY TESTING IN ACCORDANCE WITH ASTM E2357
3. MEETS REQUIREMENTS OF ICC AC 212 FOR COATINGS USED AS WRBS OVER SHEATHING
4. LISTED AS COMPLIANT WITH 2018 IBC, IRC, AND IECC IN A CURRENT ICC-ES EVALUATION REPORT (*CONSULT ICC ESR- 1233*)
5. MEETS VOC EMISSION STANDARD OF SOUTH COAST AQMD RULE 1113 FOR BUILDING ENVELOPE COATINGS

B. EIFS CLADDING
1. MEETS PERFORMANCE AND WEATHER RESISTANCE REQUIREMENTS OF 2018 IBC SECTIONS 1407.2 AND 1407.4, AND COMPLIES WITH REQUIREMENTS OF CHAPTER 26 FOR USE ON NONCOMBUSTIBLE CONSTRUCTION (TYPES I, II, II, AND IV) AND IN FIRE-RESISTANCE RATED WALL ASSEMBLIES. COMPLIES WITH REQUIREMENTS FOR USE ON COMBUSTIBLE (TYPE V) CONSTRUCTION.
2. MEETS PERFORMANCE REQUIREMENTS OF 2018 IRC SECTIONS R703.9.1 AND R703.9.2
3. MEETS REQUIREMENTS OF ICC AC 235 FOR EIFS CLAD DRAINAGE WALL ASSEMBLY
4. LISTED AS COMPLIANT WITH 2018 IBC AND IRC IN A CURRENT ICC-ES EVALUATION REPORT (*CONSULT ICC ESR-1748*)
5. TEXTURED FINISHES MEET VOC EMISSION STANDARD OF SOUTH COAST AQMD RULE 1113 FOR ARCHITECTURAL COATINGS

C. JOINT SEALANT FOR USE WITH EIFS
1. CONFORMS WITH ASTM C920: TYPE S, GRADE NS, USE NT, A, M, CLASS 100/50
2. MEETS FEDERAL SPECIFICATION TT-S-00230C TYPE II
3. CONFORMS WITH AAMA 808.3 (TYPE1) EXTERIOR PERIMETER SEALING

1. QUALITY ASSURANCE

A. MANUFACTURER REQUIREMENTS
1. MEMBER IN GOOD STANDING OF THE EIFS INDUSTRY MEMBERS ASSOCIATION (EIMA) FOR OVER THIRTY (30) YEARS
2. AIR AND WATER-RESISTIVE BARRIER AND EIFS MANUFACTURER FOR A MINIMUM THIRTY (30) YEARS
3. MANUFACTURING FACILITIES IN COMPLIANCE WITH ISO 9001 CERTIFIED QUALITY SYSTEM AND ISO 14001 CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM

B. CONTRACTOR REQUIREMENTS
1. ENGAGED IN APPLICATION OF SIMILAR SYSTEMS FOR A MINIMUM OF THREE (3) YEARS
2. KNOWLEDGEABLE IN THE PROPER USE AND HANDLING OF STO MATERIALS
3. EMPLOY SKILLED MECHANICS WHO ARE EXPERIENCED AND KNOWLEDGEABLE IN AIR AND WATER-RESISTIVE BARRIER AND EIFS APPLICATION, AND FAMILIAR WITH THE REQUIREMENTS OF THE SPECIFIED WORK
4. SUCCESSFUL COMPLETION OF MINIMUM OF THREE (3) PROJECTS OF SIMILAR SIZE AND COMPLEXITY COMPARED TO THE SPECIFIED PROJECT
5. PROVIDE THE PROPER EQUIPMENT, MANPOWER AND SUPERVISION ON THE JOB SITE TO INSTALL THE SYSTEM IN COMPLIANCE WITH STO'S PUBLISHED SPECIFICATIONS AND DETAILS AND THE PROJECT PLANS AND SPECIFICATIONS

C. INSULATION BOARD MANUFACTURER REQUIREMENTS
1. XPS BOARD LISTED BY AN APPROVED AGENCY AND IN COMPLIANCE WITH THE APPLICABLE BUILDING CODE
2. XPS BOARD MANUFACTURED UNDER AGREEMENT WITH STO AND RECOGNIZED BY STO AS BEING CAPABLE OF PRODUCING XPS INSULATION BOARD TO MEET EIFS REQUIREMENTS.

D. INSPECTIONS
1. PROVIDE INDEPENDENT THIRD-PARTY INSPECTION WHERE REQUIRED BY CODE OR CONTRACT DOCUMENTS
2. CONDUCT INSPECTIONS IN ACCORDANCE WITH CODE REQUIREMENTS AND CONTRACT DOCUMENTS

1. DELIVERY, STORAGE AND HANDLING

A. DELIVER ALL MATERIALS IN THEIR ORIGINAL SEALED CONTAINERS BEARING MANUFACTURER'S NAME AND IDENTIFICATION OF PRODUCT

B. PROTECT COATINGS (PAIL PRODUCTS) FROM FREEZING AND TEMPERATURES IN EXCESS OF 90°F (32°C). STORE AWAY FROM DIRECT SUNLIGHT

C. PROTECT PORTLAND CEMENT-BASED MATERIALS (BAG PRODUCTS) FROM MOISTURE AND HUMIDITY. STORE UNDER COVER OFF THE GROUND IN A DRY LOCATION

D. STORE GUN-GRADE AIR BARRIER COMPONENT AT TEMPERATURES BETWEEN 40 AND 80°F (4 AND 26°C), AND PROTECT FROM FREEZING, MOISTURE, DIRECT SUNLIGHT, AND KEEP AWAY FROM SOURCES OF IGNITION

E. INSULATION MATERIAL IS FLAMMABLE. KEEP AWAY FROM FLAME OR IGNITION SOURCES, DIRECT SUN EXPOSURE, HIGH HEAT, AND TEMPERATURES IN EXCESS OF 165°F (73.8°C)

1. PROJECT/SITE CONDITIONS

A. MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40°F (4°C) DURING APPLICATION AND DRYING PERIOD, MINIMUM 24 HOURS AFTER APPLICATION OF AIR AND WATER-RESISTIVE BARRIER AND EIFS PRODUCTS

B. PROVIDE SUPPLEMENTARY HEAT FOR INSTALLATION IN TEMPERATURES LESS THAN 40° F (4°C)

C. PROVIDE PROTECTION OF SURROUNDING AREAS AND ADJACENT SURFACES FROM APPLICATION OF PRODUCTS

1. COORDINATION/SCHEDULING

A. PROVIDE ROOFING AND PROTECTION AT ROOF AND FLOOR LEVELS TO PREVENT EXCESS WATER ENTRY TO THE INTERIOR OR INTO AND BEHIND THE EXTERIOR WALL DURING CONSTRUCTION

B. COORDINATE INSTALLATION OF FOUNDATION WATERPROOFING, ROOFING MEMBRANE, WINDOWS, DOORS AND OTHER WALL PENETRATIONS TO PROVIDE A CONTINUOUSLY CONNECTED AIR AND WATER-RESISTIVE BARRIER

C. INSTALL DIVERTER FLASHINGS WHEREVER WATER CAN ENTER THE WALL ASSEMBLY TO DIRECT WATER TO THE EXTERIOR

D. INSTALL SPLICES OR TIE-INS FROM AIR AND WATER-RESISTIVE BARRIER OVER BACK LEG OF FLASHINGS, AND SIMILAR DETAILS, TO FORM A SHINGLE LAP THAT DIRECTS WATER TO THE EXTERIOR

E. INSTALL COPINGS AND SEALANT IMMEDIATELY AFTER INSTALLATION OF THE EIFS WHEN COATINGS ARE DRY, AND SUCH THAT, WHERE SEALANT IS APPLIED AGAINST THE EIFS SURFACE, IT IS APPLIED AGAINST THE BASE COAT OR PRIMED BASE COAT SURFACE

F. SCHEDULE WORK SUCH THAT THE AIR AND WATER-RESISTIVE BARRIER IS EXPOSED TO WEATHER NO LONGER THAN 180 DAYS

G. ATTACH PENETRATIONS THROUGH THE EIFS TO STRUCTURAL SUPPORT AND PROVIDE WATERTIGHT SEAL AT PENETRATIONS

1. WARRANTY

A. PROVIDE MANUFACTURER'S STANDARD WARRANTY

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. PROVIDE AIR AND WATER-RESISTIVE BARRIER AND EIFS CLADDING COMPONENTS FROM SINGLE SOURCE MANUFACTURER OR APPROVED SUPPLIER

B. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:
1. STO CORP. – AIR AND WATER-RESISTIVE BARRIER, EIFS CLADDING, EIFS ACCESSORIES
a. STO CORP., 3800 CAMP CREEK PARKWAY, BUILDING 1400, SUITE 120, ATLANTA, GA 30331 TEL: 800 221 2397, HYPERLINK "HTTP://WWW.STOCORP.COM/"WWW.STOCORP.COM
2. EXTRUDED POLYSTYRENE (XPS) INSULATION BOARD
a. DUPONT, 974 CENTRE ROAD, WILMINGTON, DE 19805, TEL: 302 774 1000, HYPERLINK "HTTP://WWW.DUPONT.COM/"WWW.DUPONT.COM

2.2 AIR AND WATER-RESISTIVE BARRIER

A. STOGUARD DETAIL COMPONENTS
1. SHEATHING JOINT TREATMENT, ROUGH OPENING (RO) PROTECTION, COUNTERFLASHING, AND PENETRATIONS:
a. STO GOLD COAT OR STO AIRSEAL: BRUSH, SPRAY OR ROLLER APPLIED AIR AND WATER-RESISTIVE BARRIER COATING USED WITH STOGUARD FABRIC REINFORCEMENT
2. STATIC JOINTS AND SEAMS
a. STO RAPIDGUARD: SINGLE COMPONENT RAPID DRYING GUN-APPLIED TREATMENT FOR STATIC JOINT TRANSITIONS TO DISSIMILAR CONSTRUCTION (I.E., MASONRY TO FRAME WALL), BALCONY FLOOR SLAB-TO-CEILING, AND WALL SHEATHING TO FOUNDATION
3. STATIC AND DYNAMIC JOINTS
a. STOGUARD CONFORMABLE MEMBRANE: SELF-ADHERED MEMBRANE FLASHING FOR USE OVER PREPARED VERTICAL ABOVE-GRADE CONCRETE, CONCRETE MASONRY, BRICK MASONRY, WOOD SHEATHING, GLASS MAT GYPSUM SHEATHING, AND CEMENTITIOUS SHEATHING USED TO:
- SEAL STATIC JOINTS BETWEEN DISSIMILAR MATERIALS
- CONNECT TO ROOF MEMBRANE
- SEAL AROUND WALL PENETRATIONS SUCH AS PIPES, SCUPPERS, VENTS

B. AIR AND WATER-RESISTIVE BARRIER COATING
1. STO GOLD COAT: READY MIXED VAPOR PERMEABLE AIR AND WATER-RESISTIVE BARRIER COATING APPLIED
a. BY SUBSTRATE AS FOLLOWS:
- CMU: APPLY TWO OR THREE COATS AT MINIMUM 20-60 MILS WFT.

B. TO A MEDIUM-BUILD IN ONE OR TWO COATS TO ACHIEVE MINIMUM 20 MILS WFT (IF APPLIED BY ROLLER APPLY TWO COATS TO ACHIEVE MINIMUM 20 MILS WFT. FOR CMU SUBSTRATES APPLY TWO OR THREE COATS TO ACHIEVE 20-60 MILS WFT).
2. STO AIRSEAL: READY MIXED VAPOR PERMEABLE AIR AND WATER-RESISTIVE BARRIER COATING APPLIED
a. BY SUBSTRATE AS FOLLOWS:
- CMU: APPLY TWO OR THREE COATS AT MINIMUM 20-65 MILS WFT.

b. TO A MEDIUM-BUILD IN ONE OR TWO COATS TO ACHIEVE MINIMUM 40 MILS WFT (IF APPLIED BY ROLLER APPLY TWO COATS TO ACHIEVE MINIMUM 40 MILS WFT. FOR CMU SUBSTRATES APPLY TWO OR THREE COATS TO ACHIEVE 40-65 MILS WFT).
1. STOGUARD VAPORSEAL: CLASS 1 VAPOR RETARDER COATING FOR USE OVER PREPARED VERTICAL ABOVE-GRADE CONCRETE, CONCRETE MASONRY, BRICK MASONRY, WOOD SHEATHING, CEMENTITIOUS SHEATHING, AND GLASS MAT GYPSUM SHEATHING, APPLIED BY AIRLESS SPRAY IN ONE OR TWO COATS TO ACHIEVE MINIMUM 80 MILS TOTAL WFT

2.3 INSULATION ADHESIVE

A. STO ONE COMPONENT POLYURETHANE SPRAY FOAM ADHESIVE

2.4 INSULATION BOARD

A. EXTRUDED POLYSTYRENE (XPS) INSULATION BOARD
1. DUPONT™ STYROFOAM™ BRAND PANEL CORE ST-100 INSULATION: NOMINAL 1.8 LB/FT³ (28.8 KG/M³) EXTRUDED POLYSTYRENE (XPS) RIGID FOAM PLASTIC INSULATION BOARD IN COMPLIANCE WITH ASTM C578, TYPE X REQUIREMENTS, R-5 PER INCH (RSI – 0.88 PER 25MM), LISTED, AND FURNISHED IN ACCORDANCE WITH SECTION 1.7C

2.5 BASE COAT *(REFER TO TABLES IN APPENDIX FOR GUIDANCE ON PRODUCT SELECTION)*

A. NON-CEMENTITIOUS BASE COAT
1. STO READY MIXED ACRYLIC BASE COAT MATERIAL: STOARMAT CLASSIC PLUS, STO RFP

2.6 REINFORCING MESHES

A. OPEN WEAVE GLASS FIBER REINFORCING MESHES TREATED FOR COMPATIBILITY WITH STO MATERIALS
1. STO MESH – NOMINAL 4.5 OZ/YD² (153 G/M²) FOR AREAS REQUIRING STANDARD IMPACT RESISTANCE

2.7 PRIMER

A. STO BRUSH, ROLLER, OR SPRAY-APPLIED PRIMER AS DICTATED BY SUBSTRATE CONDITION OR FINISH SELECTION

2.8 FINISH

A. STO TROWEL APPLIED DECORATIVE AND PROTECTIVE TEXTURED FINISH

2.9 JOB MIXED INGREDIENTS

A. WATER – CLEAN AND POTABLE

B. TYPE I PORTLAND CEMENT IN COMPLIANCE WITH ASTM C150

2.10 ACCESSORIES

A. STO-MESH CORNER BEAD STANDARD – ONE COMPONENT PVC (POLYVINYL CHLORIDE) ACCESSORY WITH INTEGRAL REINFORCING MESH FOR OUTSIDE CORNER REINFORCEMENT

B. STO DRIP EDGE PROFILE - ONE COMPONENT PVC (POLYVINYL CHLORIDE) ACCESSORY WITH INTEGRAL REINFORCING MESH THAT CREATES A DRIP EDGE AND PLASTER RETURN

C. STOSEAL® STPE SEALANT - HIGH-MOVEMENT, LOW MODULUS, NON-SAG ONE-COMPONENT SILYL-TERMINATED POLYETHER JOINT SEALANT IN COMPLIANCE WITH ASTM C920 AND TESTED IN ACCORDANCE WITH ASTM C1382

2.11 MIXING

A. REFER TO MANUFACTURER'S APPLICABLE PRODUCT BULLETINS FOR MIXING OF MATERIALS

PART 3 EXECUTION

3.1 ACCEPTABLE INSTALLERS

A. PREQUALIFY UNDER QUALITY ASSURANCE REQUIREMENTS OF THIS SPECIFICATION (SECTION 1.7B)

3.2 EXAMINATION

A. INSPECT CONCRETE AND MASONRY SUBSTRATES PRIOR TO START OF APPLICATION FOR:
1. CONTAMINATION—ALGAE, CHALKINESS, DIRT, DUST, EFFLORESCENCE, FORM OIL, FUNGUS, GREASE, LAITANCE, MILDEW, OR OTHER FOREIGN SUBSTANCES
2. SURFACE ABSORPTION
3. CRACKS—MEASURE CRACK WIDTH AND RECORD LOCATION OF CRACKS
4. DAMAGE AND DETERIORATION SUCH AS VOIDS, HONEYCOMBS AND SPALLS
5. MOISTURE CONTENT AND MOISTURE DAMAGE—USE A MOISTURE METER TO DETERMINE IF THE SURFACE IS DRY ENOUGH TO RECEIVE THE PRODUCTS AND RECORD ANY AREAS OF MOISTURE DAMAGE
6. COMPLIANCE WITH SPECIFICATION TOLERANCES—RECORD AREAS THAT ARE OUT OF TOLERANCE (GREATER THAN ¼ INCH IN 10 FEET [6MM IN 3 M] DEVIATION IN PLANE)

B. INSPECT SHEATHING APPLICATION FOR COMPLIANCE WITH APPLICABLE REQUIREMENT AND INSTALLATION IN CONFORMANCE WITH SPECIFICATION AND MANUFACTURER REQUIREMENTS:
1. GLASS MAT FACED GYPSUM SHEATHING COMPLIANT WITH ASTM C1177 – CONSULT MANUFACTURER
2. EXTERIOR GRADE AND EXPOSURE I WOOD BASED SHEATHING – APA ENGINEERED WOOD ASSOCIATION E30
3. CEMENTITIOUS SHEATHING – CONSULT MANUFACTURER
4. ATTACHMENT INTO STRUCTURAL SUPPORTS WITH ADJOINING SHEETS ABUTTED (GAPPED IF WOOD-BASED SHEATHING) AND FASTENERS AT REQUIRED SPACING TO RESIST DESIGN WIND PRESSURES AS DETERMINED BY DESIGN PROFESSIONAL
5. FASTENERS SEATED FLUSH WITH SHEATHING SURFACE AND NOT OVER-DRIVEN

C. REPORT DEVIATIONS FROM THE REQUIREMENTS OF PROJECT SPECIFICATIONS OR OTHER CONDITIONS THAT MIGHT ADVERSELY AFFECT THE AIR AND WATER-RESISTIVE BARRIER OR THE EIFS INSTALLATION TO THE GENERAL CONTRACTOR. DO NOT START WORK UNTIL DEVIATIONS ARE CORRECTED.

3.3 SURFACE PREPARATION

A. REMOVE SURFACE CONTAMINANTS ON CONCRETE, CONCRETE MASONRY, GYPSUM SHEATHING, OR COATED GYPSUM SHEATHING SURFACES

B. REPAIR CRACKS, SPALLS OR DAMAGE IN CONCRETE AND CONCRETE MASONRY SURFACES, AND LEVEL CONCRETE AND MASONRY SURFACES TO COMPLY WITH REQUIRED TOLERANCES

C. APPLY CONDITIONER (CONSULT STO) BY SPRAY OR ROLLER TO CHALKING OR EXCESSIVELY ABSORPTIVE SURFACES OR PRESSURE WASH TO REMOVE SURFACE CHALKINESS

D. REMOVE FASTENERS THAT ARE NOT ANCHORED INTO SUPPORTING CONSTRUCTION AND SEAL HOLES WITH AIR AND WATER- RESISTIVE BARRIER DETAIL MATERIAL

E. SEAL OVER-DRIVEN FASTENERS WITH STO AIR AND WATER-RESISTIVE BARRIER DETAIL MATERIAL AND INSTALL ADDITIONAL FASTENERS AS NEEDED TO COMPLY WITH FASTENER SPACING REQUIREMENT

F. FILL LARGE GAPS BETWEEN SHEATHING OR VOIDS AROUND PIPE, CONDUIT, SCUPPER, AND SIMILAR PENETRATIONS WITH SPRAY FOAM AND SHAVE FLUSH WITH SURFACE (REFER TO STO DETAILS)

G. REPLACE WEATHER-DAMAGED SHEATHING AND REPAIR OR REPLACE DAMAGED OR CRACKED SHEATHING

3.4 INSTALLATION

A. INSTALL MANUFACTURER'S AIR AND WATER-RESISTIVE BARRIER IN CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS (*REFER TO APPLICABLE STO PRODUCT BULLETINS AND STOTHERM CI XPS DESIGN GUIDE AND DETAIL BOOKLET*)

B. INSTALL MANUFACTURER'S EIFS CLADDING IN CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS (*REFER TO PRODUCT BULLETINS, TO STOTHERM EIFS: INSTALLATION GUIDE, AND STOTHERM CI XPS DESIGN GUIDE AND DETAIL BOOKLET*)

3.5 PROTECTION

A. PROVIDE PROTECTION OF INSTALLED MATERIALS FROM WATER INFILTRATION INTO OR BEHIND THEM

B. PROVIDE PROTECTION OF INSTALLED MATERIALS FROM DUST, DIRT, PRECIPITATION, FREEZING AND CONTINUOUS HIGH HUMIDITY UNTIL THEY ARE FULLY DRY

3.6 CLEANING, REPAIR AND MAINTENANCE

A. CLEAN AND MAINTAIN THE EIFS FOR A FRESH APPEARANCE AND TO PREVENT WATER ENTRY INTO AND BEHIND THE SYSTEM. REPAIR CRACKS, IMPACT DAMAGE, SPALLS OR DELAMINATION PROMPTLY.

B. MAINTAIN ADJACENT COMPONENTS OF CONSTRUCTION SUCH AS SEALANTS, WINDOWS, DOORS, AND FLASHING, TO PREVENT WATER ENTRY INTO OR BEHIND THE EIFS AND ANYWHERE INTO THE WALL ASSEMBLY

C. REFER TO STO RESTORE REPAIR AND MAINTENANCE GUIDE (RESTORE PROGRAM) FOR DETAILED INFORMATION ON RESTORATION – CLEANING, REPAIRS, RECOATING, RESURFACING AND REFINISHING, OR RE-CLADDING

Berg+Moss Architects
BMA
BERG + MOSS ARCHITECTS PC
THE BEACON BUILDING
473 MAIN STREET No. 1
BEACON, NY 12508
T: 845 831 1318
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STRUCTURAL/ CIVIL ENGINEERS
COLLIERS ENGINEERING & DESIGN
555 Hudson Valley Ave, Ste 101
New Windsor, NY 12553

MECHANICAL ENGINEERS
LEGACY ENGINEERS
1001 Avenue of the Americas, 20th Floor
New York, NY 10018

No.	Description	Date
1	ISSUED FOR BID	11/3/23

SPRING VALLEY VILLAGE

SPRING VALLEY POLICE LOCKER UPGRADES

DRAWING TITLE
SPECIFICATIONS- EFIS

DRAWING NO.
A-952.00

SEAL & SIGNATURE

ISSUE DATE: 9-27-23
SCALE:
DWG BY: Author
CHK BY: Checker

JOB NUMBER
-